2

AMENDMENTS TO THE CLAIMS:

Please cancel claim 13 without prejudice or disclaimer.

 (Currently amended) A <u>computer-implemented</u> method for identifying relationships between text documents and structured variables pertaining to said text documents, comprising:

generating a dictionary of keywords in said text documents;

forming categories of said text documents using said dictionary and an automated algorithm;

counting occurrences of said structured variables, said categories, and <u>combinations of</u>

<u>said structured variables and said categories for</u> structured variable/category combinations in

said text documents; and

calculating probabilities of occurrences of said <u>combinations of structured variables</u> and <u>categories to identify a relationship between said text documents and said structured variables</u> <u>structured variable/category combinations</u>.

- (Original) The method according to claim 1, wherein said algorithm comprises a
 keyword occurrence algorithm and wherein each of said categories comprises a category of
 text documents in which a particular keyword occurs.
- 3. (Original) The method according to claim 1, wherein said algorithm comprises a clustering algorithm and wherein each of said categories comprises a category of said text documents containing a particular cluster.
- 4. (Original) The method according to claim 3, wherein said clustering algorithm comprises a k means algorithm.
- 5. (Previously presented) The method according to claim 3, wherein said forming said categories comprises inputting a predetermined number of categories.
- 6. (Previously presented) The method according to claim 2, wherein said forming said categories comprises:

3

generating a sparse matrix array containing a count of each of said keywords in each of said text documents.

- 7. (Previously presented) The method according to claim 1, wherein said keywords comprise at least one of words and phrases which occur a predetermined number of times in said text documents.
- 8. (Original) The method of claim 1, wherein said calculating probabilities comprises using a Chi squared function.
- 9. (Original) The method of claim 1, wherein said generating a dictionary of keywords comprises:

first parsing text in said text document to identify and count occurrences of words; storing a predetermined number of frequently occurring words;

second parsing text in said text documents to identify and count occurrences of phrases; and

storing a predetermined number of frequently occurring phrases.

- 10. (Original) The method according to claim 9, wherein said frequently occurring words and phrases are stored in a hash table.
- 11. (Original) The method according to claim 6, wherein said generating a sparse matrix array comprises:

third parsing text in said text documents to count a number of times that each of said keywords occurs in each of said text documents.

- 12. (Currently amended) The method according to claim 1, wherein said relationships comprise said <u>combinations of structured variables and categories</u> structured variable/category combinations-having a lowest probability of occurrence.
- 13. (Canceled)

4

14. (Currently amended) A computer-implemented method for identifying relationships between text documents and structured variables pertaining to said text documents, comprising:

generating a dictionary of keywords in said text documents;

forming categories of said text documents using said dictionary and an automated algorithm;

counting occurrences of said structured variables, said categories, and combinations of said structured variables and said categories for said text documents; and

calculating probabilities of occurrences of said combinations of said structured variables and categories, said probabilities comprising The method according to claim 1, wherein said method calculates a probability that a given co-occurrence of a structured variable and a category would have occurred as a purely random event.

- 15. (Original) The method according to claim 1, wherein said structured variables comprise predetermined time intervals.
- 16. (Original) The method according to claim 15, wherein said predetermined time intervals comprise one of days, weeks, months and years.
- 17. (Currently amended) A system for identifying relationships between text documents and structured variables pertaining to said text documents, comprising:

an input device for inputting text documents;

a processor for forming categories of said text documents and counting occurrences of said structured variables, categories, and combinations of said structured variables and said categories structured variable/category combinations and calculating probabilities of occurrence of said combinations of structured variables and categories to identify a relationship between said text documents and said structured variables structured variables structured variables and category combinations; and

a display for displaying said probabilities.

18. (Currently amended) The system according to claim 17, further comprising: a memory for storing occurrences of said structured variables, categories, and

5

combinations of structured variables and categories structured variable/category combinations and probabilities of occurrences of said combinations of structured variables and categories structured variable/category combinations.

- 19. (Original) The system according to claim 17, wherein said structured variables comprise predetermined time intervals.
- 20. (Original) The system according to claim 19, wherein said predetermined time intervals comprise one of days, weeks, months and years.
- 21. (Original) The system according to claim 17, wherein said system calculates a probability that a given co-occurrence of a structured variable and a category would have occurred as a purely random event.
- 22. (Original) The system according to claim 17, wherein said relationships comprise statistically significant relationships.
- 23. (Currently amended) A programmable storage medium tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform a method for identifying relationships between text documents and structured variables pertaining to said text documents, said method comprising:

generating a dictionary of keywords in said text documents;

forming categories of said text documents using said dictionary and an automated algorithm;

counting occurrences of said structured variables, said categories, and <u>combinations of</u>

<u>said structured variables and said categories for</u> <u>structured variable/category combinations</u> in

said text documents; and

calculating probabilities of occurrences of said <u>combinations of structured variables</u> and categories to identify a relationship between said text documents and said structured <u>variables</u> structured <u>variables</u> structured <u>variables</u>.